

IN THE CLAIMS:

- Sub B' 7
1. (Currently Amended) An apparatus for heating an infant comprising:
a surface for supporting said infant,
a cover means configured to extend over said surface and including a portion which may be configured to at least a substantially visually opaque state or a substantially visually transparent state,
at least one radiant heater ~~heating means~~ in proximity with either said cover means or said surface, and
a controller or processor configured to energise control means for energising said at least one radiant heater ~~heating means~~ such that in use the skin temperature of said infant is regulated substantially within a predetermined range whilst enclosed by said cover.
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2. (Currently Amended) An apparatus for heating an infant as claimed in claim 1 wherein said apparatus further comprises temperature sensing means for sensing the skin temperature of at least one position on said infant, the output of which is supplied to said controller or processor ~~control means~~.
3. (Currently Amended) An apparatus for heating an infant as claimed claims 1 or 2 wherein said portion comprises at least one liquid crystal panel integrally formed with said cover means.

Sub B' 4. (Currently Amended) An apparatus for heating an infant as claimed in claim 3 wherein the remainder of said cover means excepting said portion is substantially visually opaque.

5. (Currently Amended) An apparatus for heating an infant as claimed in either claim 1 or 2 wherein said cover means is substantially composed of liquid crystal panels.

6. (Currently Amended) An apparatus for heating an infant as claimed in claims ~~1 or~~ 1 or 2 wherein said cover means includes a first access means for partial access to said infant.

A1 7. (Currently Amended) An apparatus for heating an infant as claimed in claim 6 wherein said cover means is configurable between a closed position in which it substantially seals against said surface and an open position for full access to said infant.

8. (Currently Amended) An apparatus for heating an infant as claimed in claim 1 wherein said at least one radiant heater heating means comprises an upper radiant element in proximity with said cover means and a lower radiant element in proximity with said surface.

9. (Currently Amended) An apparatus for heating an infant as claimed in claim 8 wherein said upper radiant element comprises a resistive ink printed on the underside of said cover means.

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10. (Currently Amended) An apparatus for heating an infant as claimed in claim 8 wherein said surface includes a ~~mattress~~being mattress being transparent to infra-red wave length radiant energy, said lower radiant element being located underneath said mattress.

11. (Original) An apparatus for heating an infant as claimed in claim 10 wherein said lower radiant element comprises:

a housing means including a contact surface for contacting the underside of said mattress,

one or more radiant heating elements disposed within the bulk of said housing means in a location spaced from said contact surface and,

an infrared radiation barrier means blocking infrared radiation from said elements in directions away from said contact surface; said housing means incorporating infrared transmission means between said elements and at least adjacent regions of said contact surface, and said adjacent regions of said contact surface being infrared transmissible also.

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12. (Currently Amended) An apparatus for heating an infant as claimed in claims 10 or 11 wherein said temperature sensing means (140) are disposed on the upper surface of said mattress (130) which in use contacts with the skin of said infant and measuring the skin temperature thereof.

13. (Original) An apparatus for heating an infant as claimed in claim 1 further comprising humidification means for providing humidified gases to said infant.

Claims 14-19 (Cancelled)

Sub B1

20. (New) An apparatus for heating an infant comprising:
a surface for supporting said infant,
a cover configured to extend over said surface,
at least one radiant heater in proximity with either said cover or said surface,
a humidifier configured to provide humidified air within said cover,
a controller or processor configured to energise said at least one radiant heater such
that in use the skin temperature of said infant is regulated substantially within a
predetermined range whilst enclosed by said cover, and energise said humidifier to
substantially prevent insensible water loss from said infant.

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21. (New) An apparatus for heating an infant as claimed in claim 20 wherein said
apparatus further comprises temperature sensing means for sensing the skin temperature of at
least one position on said infant, the output of which is supplied to said controller or
processor.

22. (New) An apparatus for heating an infant as claimed in claim 21 wherein said cover is
configurable between a closed position in which it substantially seals against said surface and
an open position for full access to said infant.

23. (New) An apparatus for heating an infant as claimed in claim 22 wherein said at least
one radiant heater comprises an upper radiant element in proximity with said cover and a
lower radiant element in proximity with said surface.

Sub B' → 24. (New) An apparatus for heating an infant as claimed in claim 23 wherein said upper radiant element comprises a resistive ink printed on the underside of said cover.

25. (New) An apparatus for heating an infant as claimed in claim 24 wherein said surface includes a mattress being transparent to infra-red wave length radiant energy, said lower radiant element being located underneath said mattress.
